

Control Number: 50595



Item Number: 56

Addendum StartPage: 0



Public Utility Commission of Texas

Employee Training Report Required by 16 Texas Admin. Code § 25.97(d)

PROJECT NO. 50595

AFFECTED ENTITY: City Of Jasper

General Information

Pursuant to 16 Texas Admin. Code § 25.97(d)(2), not later than the 30th day after the date an affected entity finalizes a material change to a document or training program, the affected entity must submit an updated report. The first report must be submitted not later than May 1, 2020.

Instructions

Answer all questions, fill-in all blanks, and have the report notarized in the Affidavit.

Affidavit

A representative of the affected entity must swear to and affirm the truthfulness, correctness, and completeness of the information provided by attaching a signed and notarized copy of the Affidavit provided with this form.

Filing Instructions

Submit four copies (an original and three copies) of the completed form and signed and notarized Affidavit to:

Central Records Filing Clerk Public Utility Commission of Texas 1701 N. Congress Avenue P.O. Box 13326 Austin, Texas 78711-3326 Telephone: (512) 936-7180

Employee Training Report Form Last Updated in Project No. 49827 Page 1 of 4

56

1. Provide a summary description of hazard recognition training documents you provide your employees related to overhead transmission and distribution facilities.

Summary of TEC Safety Meeting HB4150 Training (two- to four-hour course)

The training will include an overview of HB 4150 with an explanation of requirements for the utilities operating in Texas. It will also include hazard recognition training as it applies to the requirements of compliance with the National Electric Safety Code (NESC). This will include clearance requirements for lands, roadways, and waterways. The employee training will define to whom, when and how the bill applies. As well as explanation of guidelines, requirements, and deadlines for filing reports. A portion of the course will include hazard recognition and an explanation of clearance guideline requirements preparing employees to proactively recognize and report hazards and clearance related issues on their utilities' system.

Course Outline:

- 1. HB 4150 Review
- 2. Hazard Recognition
- 3. NESC Clearance Guideline Requirements

Course Materials

- 1. Power Point Presentation
- 2. Presentation Material Handouts
- 3. NESC Clearance Handouts
- 4. HB 4150 Law

2. Provide a summary description of training programs you provide your employees related to the National Electrical Safety Code for construction of electric transmission and distribution lines.

Summary of TEC Safety Meeting HB4150 Training (two- to four-hour course)

The training will include an overview of HB 4150 with an explanation of requirements for the utilities operating in Texas. It will also include hazard recognition training as it applies to the requirements of compliance with the National Electric Safety Code (NESC). This will include clearance requirements for lands, roadways, and waterways. The employee training will define to whom, when and how the bill applies. As well as explanation of guidelines, requirements, and deadlines for filing reports. A portion of the course will include hazard recognition and an explanation of clearance guideline requirements preparing employees to proactively recognize and report hazards and clearance related issues on their utilities' system.

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AFFIDAVIT

I swear or affirm that I have personal knowledge of the facts stated in this report or am relying on people with personal knowledge, that I am competent to testify to them, and that I have the authority to submit this report on behalf of the affected entity. I further swear or affirm that all statements made in this report are true, correct, and complete.

Ju William Signature

Light & Power Director

Job Title

City of Jasper

Name of Affected Entity

Sworn and subscribed before me this 22 day of 2000

Year

KAREN PUMPHREY Notary ID #12382646 ly Commission Expires February 5, 2024

Notary Public in and For the State of

My commission expires on 2-5



Public Utility Commission of Texas

Annual Report Required by 16 Texas Admin. Code § 25.97(f)

PROJECT NO. 50596

AFFECTED ENTITY: City Of Jasper

General Information

Pursuant to 16 Texas Admin. Code § 25.97(f)(1), not later than May 1 of each year, each affected entity must submit this report for the preceding calendar year. The first report must be submitted not later than May 1, 2020.

Instructions

Answer all questions, fill-in all blanks, and have the report notarized in the affidavit. If you check no in part 1.a, leave parts 1.b-d blank.

Violations resulting from, and incidents, fatalities, or injuries attributable to a violation resulting from, a natural disaster, weather event, or man-made act or force outside of an affected entity's control are not required to be reported.

Affidavit

A representative of the affected entity must swear to and affirm the truthfulness, correctness, and completeness of the information provided by attaching a signed and notarized copy of the Affidavit provided with this form.

Filing Instructions

Submit four copies (an original and three copies) of the completed form and signed and notarized Affidavit

Central Records Filing Clerk Public Utility Commission of Texas 1701 N. Congress Avenue P.O. Box 13326 Austin, Texas 78711-3326

Telephone: (512) 936-7180

Annual Report Form Last Updated in Project No. 49827 Page 1 of 6

	1. This part applies only to an affected entity that owns or operates overhead transmission facilities greater than 60 kilovolts.					
	a)	Does this part 1 apply to you? Yes No				
	b)	Provide the number of identified occurrences of noncompliance with Public Utility Regulatory Act (PURA) § 38.004 regarding vertical clearance requirements of the National Electrical Safety Code (NESC) for overhead transmission facilities.				
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c) Do you have actual knowledge that any portion of your transmission system is not in compliance with PURA § 38.004 regarding vertical clearance requirements of the NESC for overhead transmission facilities?

d) Do you have actual knowledge of any violations of easement agreements with the United States Army Corps of Engineers relating to PURA § 38.004 regarding vertical clearance requirements of the NESC for overhead transmission facilities?

- 2. This part applies to an affected entity that owns or operates overhead transmission facilities greater than 60 kilovolts or distribution facilities greater than 1 kilovolt.
 - a) Provide the number of fatalities or injuries of individuals other than employees, contractors, or other persons qualified to work in proximity to overhead high voltage lines involving transmission or distribution assets related to noncompliance with the requirements of PURA § 38.004.

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b)	Provide a description of corrective reoccurrence of fatalities or injuries de	actions taken or planned to prevent escribed in subpart a), immediately ab	the
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AFFIDAVIT

I swear or affirm that I have personal knowledge of the facts stated in this report or am relying on people with personal knowledge, that I am competent to testify to them, and that I have the authority to submit this report on behalf of the affected entity. I further swear or affirm that all statements made in this report are true, correct, and complete.

Lee Wellman
Printed Name

Inh Title

City OF Jasper
Name of Affected Entity

Sworn and subscribed before me this 22 day of

1}

Year

KAREN PUMPHREY Notary ID #12382646 ly Commission Expires

Notary Public in and For the State of

My commission expires on 2.5-24



C.O.R.E TRAINING

TEC's Co-Operative Regional Education program brings instructor-led workshops to Co-op Country!

C•O•R•E classes are both convenient and relevant, with training and educational opportunities for both co-op leaders and employees. The program provides inclusive training at specific co-op locations or regional training hosted by co-ops willing to provide their facility—it's your choice! For more information or to schedule C•O•R•E training, contact Monica Beavers at **mbeavers@texas-ec.org**.

Training in response to William Thomas Heath Power Line Safety Act—HB 4150

Based on the mandates in HB 4150, utilities must provide a report with a summary description of the hazard recognition training documents and training programs related to the NESC for the construction of electric transmission and distribution lines provided to employees. Based on these requirements, Hi-Line and TEC offer the following training options:

Hazard Recognition

This four-hour course focuses on equipping electric utility employees with the knowledge to recognize clearance hazards of overhead power lines. HB 4150 Section 38.102(a)(1) requires utilities to provide hazard recognition training for overhead transmission and distribution lines. The training is different than the site hazard recognition training required by OSHA.

Course outline:

- · Importance of hazard recognition for overhead power lines
- · Vertical and horizontal clearance requirements
- Importance of an intact system grounding system
- Isolation or/and grounding of anchor guys
- · Hazard assessment management
 - > Defining criteria for hazard assessment and data collection
 - > Analyzing data and determining appropriate actions
 - > Preparing and executing an Aaction plan
- · Report documentation and record maintenance

NESC Clearance Requirements

This four-hour course was created to educate all utility personnel whose positions require a working knowledge of the NESC rules, which can include engineers, line workers and staking technicians.

Course outline:

- Defining sag requirements—Rule 230 2
- Ground clearances—Table 232-1 and 232-2
- Clearances to building and signs—Table 234-1
- Clearances to pools and grain bins—Rule 234E and 234F
- · Joint use clearances-Rule 235, 238, and 239

Designing Transmission and Distribution Lines Crossing Lakes

This one-day program was created based on the mandates in HB 4150 outlining that utilities may wish to review all lake crossings for adequate clearances as defined by Rule 232 of the NESC and for compliance with the U.S. Army Corps of Engineers easement requirements.

The class will review the applicable sections of the NESC as it relates to designing long spans over lakes and the easement terms and specifications commonly found in easements with the Corps of Engineers. The class will provide a demonstration of designing a lake crossing using software such as Pole Foreman and Sag 10.

Course outline:

- Requirements of the HB 4150
- · Lake crossing issues
- · NESC requirements for lake crossings
 - > Rule 232 clearances
 - > Rule 241 required grade of construction of crossing lakes
 - > Rule 250D application of extreme ice
 - Rule 250C extreme wind
 - Rule 235Cb design considerations for wire slap and sag to lower conductors
- Corps of Engineers easement requirements
 - > Vertical clearance requirements
 - Additional clearance requirements for areas designated for rigging or launching sailboats
- Determining lake crossing clearances
 - > High water
 - > Sag and tension for long crossings
 - > Worst case sag
- · Additional considerations
 - > Transmission adders
 - > Marker balls
- Example problems



C.O.R.E TRAINING

TEC's Co-Operative Regional Education program brings instructor-led workshops to Co-op Country!

C•O•R•E classes are both convenient and relevant, with training and educational opportunities for both co-op leaders and employees. The program provides inclusive training at specific co-op locations or regional training hosted by co-ops willing to provide their facility—it's your choice! For more information or to schedule C•O•R•E training, contact Monica Beavers at **mbeavers@texas-ec.org**.

HB 4150 TRAINING CONTINUED

NESC Clearance Review of Existing Transmission Lines

This one-day course is designed for operations personnel and staking technicians. It relates to the section of the mandate requesting that utilities submit a report on training related to the NESC for the "construction of transmission and distribution facilities."

This training will concentrate on NESC Section 232—Vertical Clearances. Further, the training will provide the skillsets necessary to inspect transmission lines without creating a model of the line using LiDAR.

Course outline:

- Rule 232B sag and tension definition
- Rule 232 vertical clearance above ground and water surfaces
- Rule 233 vertical clearance from other utilities
- · Identification of activity below the utility line
- Example problems using Sag10
 - > Effect of long and short spans
 - > Effect of grade along the line
- · Determining the tension of an existing line
 - > Sag measurements
 - > Calculation of tension based on sag
- · Use of software to determine ground elevations
- · Example problems



WEBINAR

Engineering Issues Related to HB 4150

INSTRUCTOR: HI-LINE ENGINEERING

FEBRUARY 26, 10-11:30 A.M. **Register by February 21**

The William Thomas Heath Power Line Safety Act, HB 4150, requires electric utilities to review the vertical clearances of their transmission and distribution lines crossing certain lakes. Lines identified to be non-compliant with the NESC in effect at the time the line was constructed or not meeting the USACE permit requirements, must be brought into compliance by December 31, 2021. In addition, electric utilities must provide a 5-year plan for inspecting the vertical clearance of transmission lines greater than 60kV.

This webinar will provide a discussion of the NBSC Section 232-Vertical Clearances as it relates to transmission line clearances, determining worse case sag for existing lines, and clearance for distribution/transmission crossing of lakes. It will also provide an overview of inspection methods for transmission line vertical clearances and power lines crossing lakes.

Webinar objectives:

- Review requirements of HB 4150.
- Discussion of NESC/USACE required clearances over the lakes listed in Section 4 of HB 4150.
- Overview of inspection methods for transmission and distribution lines crossing lakes.
- Evaluation of software options available to determine clearances of lake crossings.

Webinar Registration Fees

Member Registration: \$99 per person

Group Rate: \$295 per cooperative (unlimited attendees)

Nonmember Registration: \$200 per person

Note: A \$50 charge will be applied per student for cancellations

after the "register by" date listed above.

For more information: Brooke Robertson, (512) 486-6212,

brobertson@texas-ec.org

To register online, go to texas-ec.org.

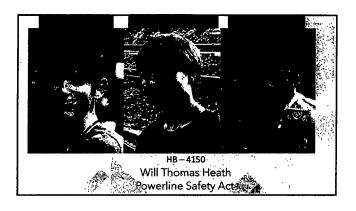
Continuing Education Units and Continuing Professional Education Hours

This course may be eligible for CEUs or CPEs, depending on the governing body. Upon request, TEC will provide a certificate of completion to participants who complete the entire course. Participants may use certificates to apply for CEUs/CPEs.

There are no prerequisites for this webinar.



If you have ideas on future training topics you would like to see, contact Monica Beavers at mbeavers@texas-ec.org.



 Texas Governor Greg Abbott signed the William Thomas Heath Power Line Safety Act, HB 4150 into law on June 14, 2019, with the Act becoming effective September 1, 2019.



The Act requires utilities to submit various reports on training, inspections, compliance, and incidents. The first report is due by May 1, 2020.

Utilities Required to Train & Report

There are three categories of electric utilities required to submit various reports to the Texas Public Utilities Commission.

- 1. Electric utilities with distribution facilities only.
- Electric utilities with transmission facilities only.
- 3. Electric utilities with both distribution and transmission facilities.

Some of these reports will be annual and some on a 5 year reporting schedule. Again, the first of these reports are due May 1, 2020.

Requirements – Training Sec. 38.102. REPORTS ON SAFETY PROCESSES AND INSPECTIONS.

What does It Say?

- 1. Submit Summary of Hazard Recognition Training for Employees
- 2. Submit Summary of NESC Training for Employees
- 3. Submit within 30 days any Changes to Report or Program

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Requirements – Training Sec. 38.102. REPORTS ON SAFETY PROCESSES AND INSPECTIONS.

What does It Say?

- 1. For Utilities Owning or Operating Transmission above 60 KV Every 5 years a Report Must be Submitted to the Commission. No later than May $1^{\rm st}$.
- 2. Report must Include the Percent of the Transmission System Inspected in the Period Relating to NESC Vertical Clearances
- 3. The Percent Anticipated to be Inspected in the Period Relating to NESC Vertical Clearance

Requirements – Training Sec. 38.102. REPORTS ON SAFETY PROCESSES AND INSPECTIONS.

For Utilities Owning or Operating Transmission above 60 KV

1,

- Every year by May 1st a Report Including the Number of Noncompliance Occurrences Identified and Whether They Have Actual Knowledge of Any Portions Which are Noncompliant with NESC Vertical Clearances.
- 2. Whether They Have Actual Knowledge of Any Violations of Easement Agreements with U.S. Corp of Engineers.

Note: U S Army Corps of Engineers have jurisdiction over all navigable water in the United States. Their clearance requirements and easement agreements are usually more stringent than the NESC but the more stringent regulation of the two shall be conformed to.

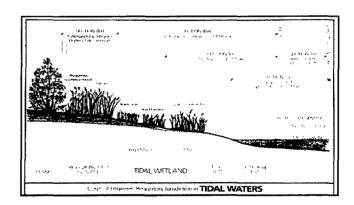


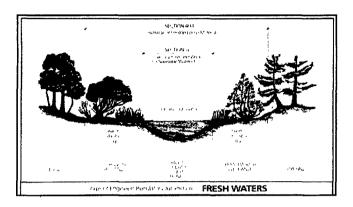
Recognition of Army Corps of Engineers Authority is in

US Army Corps of Engineers.

What are the Limits of the Corps Jurisdiction?

- The Corps regulations broadly define two important terms, "waters of the United States" for the purpose of Section 404 of the Clean Water Act; and "navigable waters of the United States" for Section 10 of the Rivers and Harbors Act
- Section 404 of the Clean Water Act defines the landward limit of jurisdiction as the high tide line in tidal waters and the ordinary high water mark as the limit in non-tidal waters.





Requirements – Reporting Sec. 38.102. REPORTS ON SAFETY PROCESSES AND INSPECTIONS.

What Does It Say?

Every System Operating Above 60KV Transmission and Above 1KV Distribution Must Submit a Report Each Year No Later than May 1^{π}

Including the Number of Fatalities or Injuries to Nonqualified Persons Involving Noncompliant Portions of the System

And a Description of Corrective Actions Taken or Planned to Prevent the Reoccurrence of Fatalities or Injuries.

Requirements – Reporting Sec. 38.102. REPORTS ON SAFETY PROCESSES AND INSPECTIONS.

Violations and Incidents Resulting from a Natural Disaster, Weather Event, or Force Outside of a Utility's Control are not Required to be Included in the Reports

By September 1, Each Year the Commission Shall Make the Reports Publicly Available on the Commission's Internet Website.

The Report, is not Admissible in a Civil or Criminal Proceeding Against the Electric Utility or the Utility's Employees, Directors, or Officers.

The Commission May Otherwise Take Enforcement Actions $\|\ \mbox{$ \mu$ Under The Commission's Authority.}$

Understanding Chapter 38 Section 38.004 of the Texas Utilities Code: Minimum Clearance Standard

Sec. 38.004. MINIMUM CLEARANCE STANDARD.

(a) Notwithstanding Any Other Law, A Transmission Or Distribution Line Owned by An Electric Utility Must Be Constructed, Operated, and Maintained, as to Clearances, in the Manner Described by the National Electrical Safety Code Standard ANSI (C)(2), as Adopted by the American National Safety Institute and in Effect at the Time of Construction.

Means that even if something is written that is opposite in meaning to the provision; the provision will still apply. It is a formal way of saying, that the provision will ALWAYS apply. In this case, even if the act or any other law says something opposed to that provision, it doesn't matter.

Understanding Chapter 38 Section 38.004 of the Texas Utilities Code: Minimum Clearance Standard

Sec. 38.004. MINIMUM CLEARANCE STANDARD.

(b) Electric Utilities, Shall Meet The Minimum Clearance Requirements Specified In Rule 232 of the National Electrical Safety Code Standard ANSI (c)(2) in the Construction of any Transmission or Distribution Line Over All of The 178 Lakes Listed in This Section. (Hand-Out)

CHAPTER 38. REGULATION OF ELECTRIC SERVICES SUBCHAPTER A. STANDARDS

Sec. 38.001. GENERAL STANDARD.

An Electric Utility Shall Furnish Service, Instrumentalities, and Facilities that are Safe, Adequate, Efficient, and Reasonable.

Meeting This Standard Means That Utilities Must Maintain Their System's Infrastructure in a Safe, Reliable Condition for the Public, as Well as for Employees.



What is a Hazard? A Hazard Is An Unsafe Act Or Unsafe Condition With Potential To Cause Illness, Injury, Or Death To People Or Animals, Damage To Property, Damage To The Environment, Or A Combination Of These.

Hazard Recognition

Designed to Identify, Report, Repair, Eliminate and Document any Potential Hazard on the Utilities' Infrastructure.

Reporting Hazardous Conditions

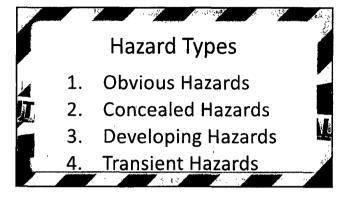
When A Hazardous Condition Is Observed, Regardless Of The Department In Which The Condition Exists, The Employee Shall Report It Promptly To A Proper Authority And When Necessary Guard The Area.

Some Reasons Why....

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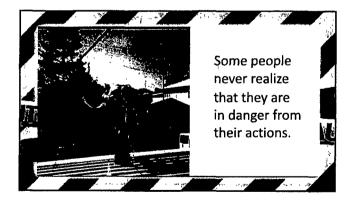
- Your Safety
 - Your Crew's Safety
- The Public's Safety
- Company Policy
 - Safety Manual

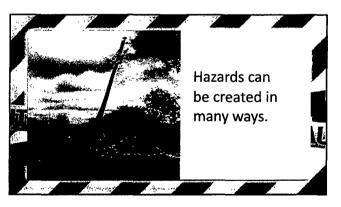
Reporting Hazardous Conditions Continued An Employee Who Receives A Report Of Any Hazardous Emergency Condition Shall Try To Obtain The Name Of The Informant, The Exact Location, And The Nature Of The Trouble/Hazard. The Employee Shall Immediately Refer This Information To The Person Having Responsibility For Such Matters.

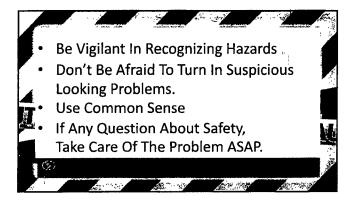




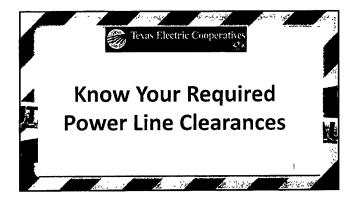
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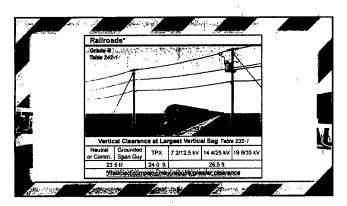


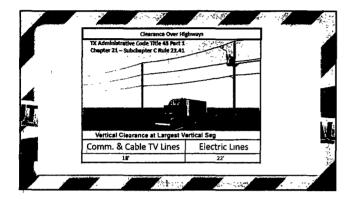


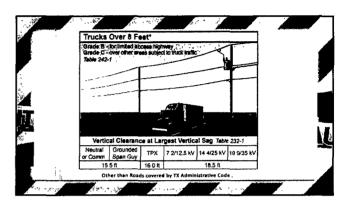


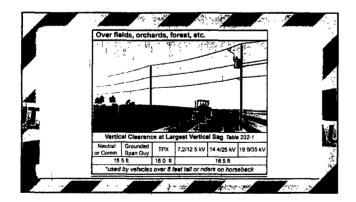


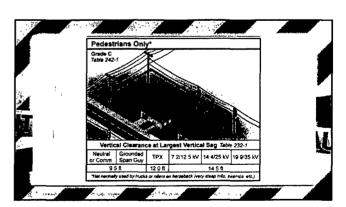




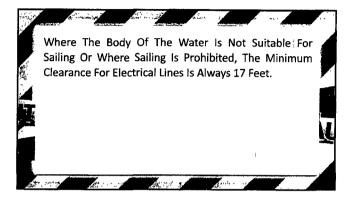


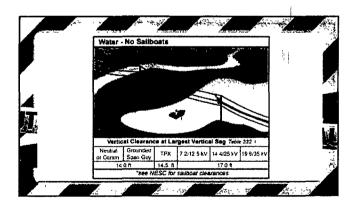


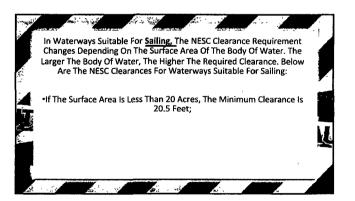


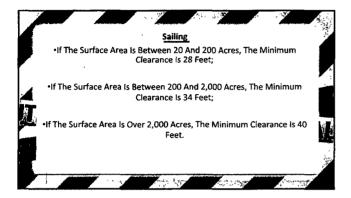


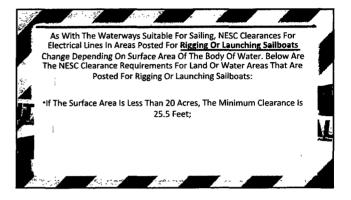
The NESC Clearance Requirements Are Different Depending On Whether Or Not The Waterway Is Suitable For Sail-boating.
Additionally, the NESC Publishes Separate Clearance Requirements For Areas That Are Posted For Rigging Or Launching Sailboats.

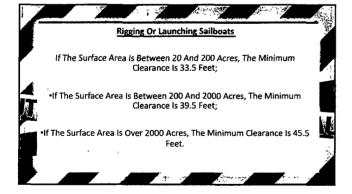


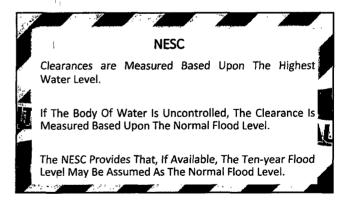


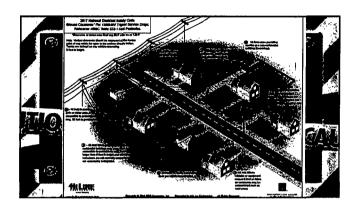




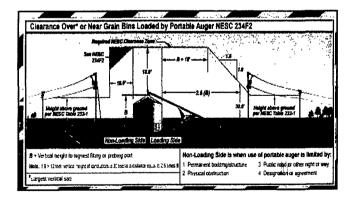


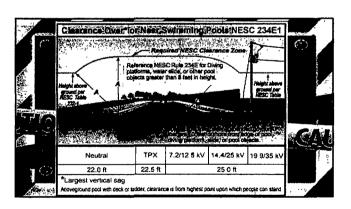


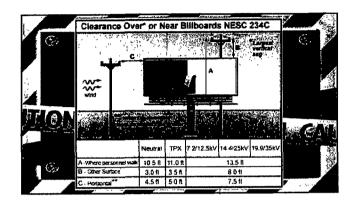


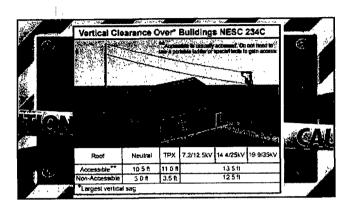


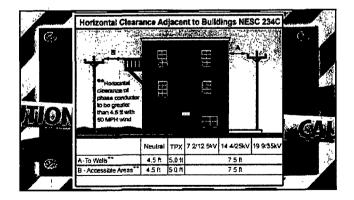


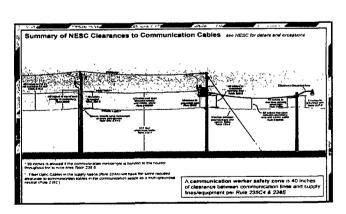












Requirements – **Training** Sec. 38.102. REPORTS ON SAFETY PROCESSES AND INSPECTIONS.

- (a) Each electric utility, municipally owned utility, and electric cooperative that owns or operates overhead transmission or distribution assets shall submit to the commission a report that includes:
- (1) a summary description of hazard recognition training documents provided by the utility or electric cooperative to its employees related to overhead transmission and distribution facilities; and
- (2) a summary description of training programs provided to employees by the utility or electric cooperative related to the National Electrical Safety Code for the construction of electric transmission and distribution lines.
- (b) An electric utility, municipally owned utility, or electric cooperative shall submit an updated report not later than the 30th day after the date the utility or electric cooperative finalizes a material change to a document or program included in a report submitted under Subsection (a).

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- (c) Not later than May 1 every five years, each electric utility, municipally owned utility, and electric cooperative that owns or operates overhead transmission facilities greater than 60 kilovolts shall submit to the commission a report for the preceding five-year period ending on December 31 of the preceding calendar year that includes:
- (1) the percentage of overhead transmission facilities greater than 60 kilovolts inspected for compliance with the National Electrical Safety Code relating to vertical clearance in the reporting period; and
- (2) the percentage of the overhead transmission facilities greater than 60 kilovolts anticipated to be inspected for compliance with the National Electrical Safety Code relating to vertical clearance during the five-year period beginning on January 1 of the year in which the report is submitted.
- (d) Subject to Subsection (f), not later than May 1 of each year, each electric utility, municipally owned utility, or electric cooperative that owns or operates overhead transmission facilities greater than 60 kilovolts shall submit to the commission a report on the overhead transmission facilities for the preceding calendar year that includes information regarding:
- (1) the number of identified occurrences of noncompliance with Section 38.004 regarding the vertical clearance requirements of the National Electrical Safety Code for overhead transmission facilities;
- (2) whether the utility or electric cooperative has actual knowledge that any portion of the utility's or electric cooperative's transmission system is not in compliance with

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Section 38.004 regarding the vertical clearance requirements of the National Electrical Safety Code; and

(3) whether the utility or electric cooperative has actual knowledge of any violations of easement agreements with the United States Army Corps of Engineers relating to Section 38.004 regarding the vertical clearance requirements of the National Electrical Safety Code for overhead transmission facilities.

Note: U S Army Corps of Engineers have jurisdiction over all navigable water in the United States. Their clearance requirements and easement agreements are usually more strict than the NESC but the more stringent regulation of the two shall be conformed to.

- (e) Subject to Subsection (f), not later than May 1 of each year, each electric utility, municipally owned utility, or electric cooperative that owns or operates overhead transmission facilities greater than 60 kilovolts or distribution facilities greater than 1 kilovolt shall submit to the commission a report for the preceding calendar year that includes:
- (1) the number of fatalities or injuries of individuals other than employees, contractors, or other persons qualified to work in proximity to overhead high voltage lines involving transmission or distribution assets related to noncompliance with the requirements of Section 38.004; and
- (2) a description of corrective actions taken or planned to prevent the reoccurrence of fatalities or injuries described by Subdivision (1).

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- (f) Violations resulting from, and incidents, fatalities, or injuries attributable to a violation resulting from, a natural disaster, weather event, or man-made act or force outside of a utility's or electric cooperative's control are not required to be included in the portions of the reports required under Subsections (d) and (e).
- (g) Not later than September 1, each year the commission shall make the reports publicly available on the commission's Internet website.
- (h) A report, and any required information contained in a report, made on an incident or violation under this section is not admissible in a civil or criminal proceeding against the electric utility, municipally owned utility, or electric cooperative, or the utility's or electric cooperative's employees, directors, or officers. The commission may otherwise take enforcement actions under the commission's authority.

Sec. 38.004. MINIMUM CLEARANCE STANDARD.

(a) Notwithstanding any other law, a transmission or distribution line owned by an electric utility or an electric cooperative must be constructed, operated, and maintained, as to clearances, in the manner described by the National Electrical Safety Code Standard ANSI (c)(2), as adopted by the American National Safety Institute and in effect at the time of construction.

Means that even if something is written that is opposite in **meaning** to the provision; the provision will still apply. It is a formal way of saying, that the provision will ALWAYS apply. In this case, even if the **act** or **any other law** says something opposed to that provision, it doesn't matter.

(b) An electric utility, municipally owned utility, or electric cooperative shall meet the minimum clearance requirements specified in Rule 232 of the National Electrical Safety Code Standard ANSI (c)(2) in the construction of any transmission or distribution line over all of the 178 lakes listed in this section.

Lakes Listed IN Section 38.004

- (1) Abilene; (2) Alan Henry; (3) Alvarado Park;
- (4) Amistad; (5) Amon G. Carter; (6) Aquilla;
- (7) Arlington; (8) Arrowhead; (9) Athens;
- (10) Austin; (11) Averhoff; (12) B. A. Steinhagen;
- (13) Bachman; (14) Balmorhea; (15) Bardwell;
- (16) Bastrop; (17) Baylor Creek; (18) Belton;
- (19) Benbrook; (20) Big Creek; (21) Bob Sandlin;
- (22) Bonham; (23) Bonham State Park; (24) Brady Creek;
- (25) Brandy Branch; (26) Braunig; (27) Brazos;
- (28) Bridgeport; (29) Brownwood; (30) Bryan;
- (31) Bryson; (32) Buchanan; (33) Buffalo Creek;
- (34) Buffalo Springs; (35) Caddo; (36) Calaveras;
- (37) Canyon; (38) Casa Blanca; (39) Cedar Creek;
- (40) Champion Creek; (41) Choke Canyon; (42) Cisco;
- (43) Cleburne State Park; (44) Clyde; (45) Coffee Mill;
- (46) Coleman; (47) Coleto Creek; (48) Colorado City;
- (49) Conroe; (50) Cooper; (51) Corpus Christi;
- (52) Crook; (53) Cypress Springs; (54) Daniel;
- (55) Davy Crockett; (56) Diversion; (57) Dunlap;
- (58) Eagle Mountain; (59) E. V. Spence; (60) Fairfield;
- (61) Falcon; (62) Fayette County; (63) Findley;
- (64) Fork; (65) Ft Parker State Park; (66) Ft Phantom Hill;

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- (67) Fryer; (68) Georgetown; (69) Gibbons Creek;
- (70) Gilmer; (71) Gladewater; (72) Gonzales;
- (73) Graham; (74) Granbury; (75) Granger;
- (76) Grapevine; (77) Greenbelt; (78) Halbert;
- (79) Hawkins; (80) Holbrook; (81) Hords Creek;
- (82) Houston; (83) Houston County; (84) Hubbard Creek;
- (85) Inks; (86) Jacksboro; (87) Jacksonville;
- (88) J. B. Thomas; (89) Joe Pool; (90) Kemp;
 - (91) Kickapoo; (92) Kirby; (93) Kurth;
 - (94) Lady Bird; (95) Lake O' The Pines; (96) Lavon;
 - (97) Leon; (98) Lewisville; (99) Limestone;
 - (100) Livingston; (101) Lone Star; (102) Lost Creek;
 - (103) Lyndon B. Johnson; (104) Mackenzie; (105) Marble Falls;
 - (106) Marine Creek; (107) Martin Creek;
 - (108) McClellan; (109) Medina; (110) Meredith;
 - (111) Meridian State Park; (112) Mexia; (113) Mill Creek;
 - (114) Millers Creek; (115) Mineral Wells;
 - (116) Monticello; (117) Moss; (118) Mountain Creek;
 - (119) Muenster; (120) Murvaul; (121) Nacogdoches;
 - (122) Naconiche; (123) Nasworthy; (124) Navarro Mills;
 - (125) New Ballinger; (126) Nocona; (127) Oak Creek;
 - (128) O. C. Fisher; (129) O. H. Ivie; (130) Palestine;
 - (131) Palo Duro; (132) Palo Pinto; (133) Pat Cleburne;
 - (134) Pat Mayse; (135) Pinkston; (136) Placid;
 - (137) Possum Kingdom; (138) Proctor; (139) Purtis Creek;
 - (140) Quitman; (141) Raven; (142) Ray Hubbard;

- (143) Ray Roberts (144) Red Bluff; (145) Richland-Chambers;
- (146) Sam Rayburn; (147) Sheldon; (148) Somerville;
- (149) Squaw Creek; (150) Stamford; (151) Stillhouse Hollow;
- (152) Striker; (153) Sulphur Springs; (154) Sweetwater;
- (155) Tawakoni; (156) Texana; (157) Texoma;
- (158) Timpson; (159) Toledo Bend; (160) Tradinghouse Creek;
- (161) Travis; (162) Twin Buttes; (163) Tyler;
- (164) Waco; (165) Walter E. Long; (166) Waxahachie;
- (167) Weatherford; (168) Welsh; (169) Wheeler Branch;
- (170) White River; (171) White Rock; (172) Whitney;
- (173) Wichita; (174) Winnsboro; (175) Winters-Elm Creek;
- (176) Wood; (177) Worth; (178) Wright Patman;

2017 NESC Vertical Clearances

Railways

Neutral

23.5 ft

TPX

24 ft

Dist. Primary

26.5 ft

Highways - TX Administrative Code

Communications and Cable TV

18 ft

Electrical Lines

22 ft

Trucks Over 8 ft.

Neutral and Span Guys

15.5 ft

TPX

16 ft

Dist. Primary

18.5 ft

Fields, Orchards, Forest, Ect.*

Neutral and Span Guy

15.5 ft

TPX

16 ft

Dist. Primary

18.5 ft

Pedestrians Only*

Neutral and Span Guy

9!5 ft

TPX

12 ft

Dist. Primary

14.5 ft

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Water - No Sailboat

Neutral and Span Guy

14 ft

TPX

14.5 ft

Dist. Primary

17 ft

Waterways Suitable	for Sailing	Rigging or Launching Areas			
Less Than 20 Acres	20.5 Ft	25.5 Ft			
20 to 200 Acres	28 Ft	33.5 Ft			
200 to 2,000 Acres	34 Ft	39.5 Ft			
Over 2,000 Acres	40 Ft	45.5 Ft			

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Part 1 of 2

Texas Electric Cooperatives

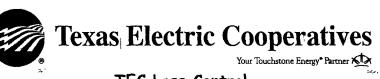
Class Roster

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White - Office Copy Yellow - Organization Copy

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location:	, de la companya della companya della companya de la companya della companya dell	TAI	PHR	`	•			

	Print Name	Signature	Classification
1.	Dalton Walner		641
2.	Tray Barnett	Trans Basevill	
3.	Babelt WILSON	Bolent Wilso	L.neman L+P
4.	Lisa Bethasfield	Levo Shortelie Sweley	PARKS
5.	Logan Holmes		Jank C
6.	Lee Wellman	Tee Willen	L. No Super
7.	DAllAS MAHAPAIS	Walley Y Parther	Line KIMW
8.	Marc Holcomb	Mad Johnsons	lineman
9.	Valillard Southwell 5	To allow Southwell Sic.	B. O. W
10.	Colon Ada	D000	(204)
11.	Billy Middle FOR	Tails Throdlyn	Reu
12.	KENNOTH FOUSIER	request of the	1,0-W
13.	Donovan Middleton	One ording	K.O. W
14.	Walter Bootie	Islanter Frontio	mother
15.	Chris CHKIOS	Che HATTLE	MRKS
16.	Keenan Holloway	K- 1. Chillian	K.O.W
17.	James Sylvester	Lanes Selept	Cipparen
18.		Fredhe Bolans	KIOW
19.	TERRY GRANT	17719-	R.O.W.
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TEC Loss Control

	Part	 of	_	_	
- 1	!				

Class Documentation/Programs

Loss Control Specialist RONALD WIGGINS LELELTI	10
Date 2-25-20 Organization GITY OF JASPER	
Accidents/Near Miss Discussion: 1/ 1701 CVT SERVICE DROP LOUSE TO A FEW FEMA 1701 A 9 POLE FELL OVER WILL THE TYEMR 1717 INC. THE SIDE CAVILLOC 1900 DIEMAGE TO MOBILE HOME.	
HIT HEAD ON TIP OF AVGER	
FATH POWER LINE SAFE TO ALT-NESC RULE 333 CLEARING OUREMENTS FOR DISTIBUTION LINES OVER LAKES, NESC SELTING SOUND TRUCTION STANDARDS, DVC REQUIRED TRANSING 38, 103 RE V SAFE TO PROCESSES & INSPECTION SHADARD RECOGNITION - N RECA ESDP SHEAD - APPA 403 POLK INSPECTION & DECAY VIdeo Presentation/Discussion: VIDEO PROPER TRAINER CONNECTIONS HOME SAFE TO DAY PROPER TRAINER CONNECTIONS	73
Check Applicable Categories:	
OSHA Required Training Safety Manual Review Accident Investigation Pole Top Rescue Aerial Device Rescue	
Comments/Other:	